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Eddie Kohler, Robert Morris, Benjie Chen, John Jannotti, M. Frans Kaashoek

August 2000 **ACM Transactions on Computer Systems (TOCS)**, Volume 18 Issue 3

Publisher: ACM Press

Full text available: pdf(376.31 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Clicks is a new software architecture for building flexible and configurable routers. A Click router is assembled from packet processing modules called elements. Individual elements implement simple router functions like packet classification, queuing, scheduling, and interfacing with network devices. A router configurable is a directed graph with elements at the vertices; packets flow along the edges of the graph. Several features make individual elements more powerful and ...

Keywords: component systems, routers, software router performance**2** [Software engineering for security: a roadmap](#)

Premkumar T. Devanbu, Stuart Stubblebine

May 2000 **Proceedings of the Conference on The Future of Software Engineering**

Publisher: ACM Press

Full text available: pdf(1.71 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**Keywords:** copy protection, security, software engineering, water-marking**3** [Analysis of a local-area wireless network](#)

Diane Tang, Mary Baker

August 2000 **Proceedings of the 6th annual international conference on Mobile computing and networking**

Publisher: ACM Press

Full text available: pdf(1.36 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

To understand better how users take advantage of wireless networks, we examine a twelve-week trace of a building-wide local-area wireless network. We analyze the network for overall user behavior (when and how intensively people use the network and how much they move around), overall network traffic and load characteristics (observed throughput and symmetry of incoming and outgoing traffic), and traffic characteristics

from a user point of view (observed mix of applications and number of ho ...

Keywords: local-area wireless networks, network analysis

4 A framework for implementing role-based access control using CORBA security service



Konstantin Beznosov, Yi Deng

October 1999 **Proceedings of the fourth ACM workshop on Role-based access control**

Publisher: ACM Press

Full text available:  [pdf\(1.21 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)


5 Fast and scalable wireless handoffs in supports of mobile Internet audio



Ramón Cáceres, Venkata N. Padmanabhan

December 1998 **Mobile Networks and Applications**, Volume 3 Issue 4

Publisher: Kluwer Academic Publishers

Full text available:  [pdf\(187.08 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Future internetworks will include large numbers of portable devices moving among small wireless cells. We propose a hierarchical mobility management scheme for such networks. Our scheme exploits locality in user mobility to restrict handoff processing to the vicinity of a mobile node. It thus reduces handoff latency and the load on the internetwork. Our design is based on the Internet Protocol (IP) and is compatible with the Mobile IP standard. We also present experimental results for the I ...

6 The 19th Century Meets the 21st



Paul Murphy

September 1999 **Linux Journal**

Publisher: Specialized Systems Consultants, Inc.

Full text available:  [html\(17.79 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Mr. Murphy describes how he set up DSL service for the old Brooklyn apartment where he lives

7 Router plugins: a software architecture for next-generation routers



Dan Decasper, Zubin Dittia, Guru Parulkar, Bernhard Plattner

February 2000 **IEEE/ACM Transactions on Networking (TON)**, Volume 8 Issue 1

Publisher: IEEE Press

Full text available:  [pdf\(530.34 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: communication system routing, communication system security, internet, modular computer systems


8 Mobile networking in the Internet



Charles E. Perkins

December 1998 **Mobile Networks and Applications**, Volume 3 Issue 4

Publisher: Kluwer Academic Publishers

Full text available:  [pdf\(166.90 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Computers capable of attaching to the Internet from many places are likely to grow in popularity until they dominate the population of the Internet. Consequently, protocol research has shifted into high gear to develop appropriate network protocols for supporting mobility. This introductory article attempts to outline some of the many

promising and interesting research directions. The papers in this special issue indicate the diversity of viewpoints within the research community, and it is ...

9 Linux DSP shell



Michael Stricklen, Bob Cummings, Brandon Bonner
September 1999 **Crossroads**, Volume 6 Issue 1

Publisher: ACM Press

Full text available: [html\(30.23 KB\)](#) Additional Information: [full citation](#), [index terms](#)

10 Session summaries from the 17th symposium on operating systems principle (SOSP'99)



Jay Lepreau, Eric Eide
April 2000 **ACM SIGOPS Operating Systems Review**, Volume 34 Issue 2

Publisher: ACM Press

Full text available: [pdf\(3.15 MB\)](#) Additional Information: [full citation](#), [index terms](#)

11 Router plugins: a software architecture for next generation routers



Dan Decasper, Zubin Dittia, Guru Parulkar, Bernhard Plattner
October 1998 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM SIGCOMM '98 conference on Applications, technologies, architectures, and protocols for computer communication SIGCOMM '98**, Volume 28 Issue 4

Publisher: ACM Press

Full text available: [pdf\(1.82 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Present day routers typically employ monolithic operating systems which are not easily upgradable and extensible. With the rapid rate of protocol development it is becoming increasingly important to dynamically upgrade router software in an incremental fashion. We have designed and implemented a high performance, modular, extended integrated services router software architecture in the NetBSD operating system kernel. This architecture allows code modules, called *plugins*, to be dynamically ...

Keywords: high performance integrated services routing, modular router architecture, router plugins

12 Security architecture-based system design



Edward A. Schneider
September 1999 **Proceedings of the 1999 workshop on New security paradigms**

Publisher: ACM Press

Full text available: [pdf\(677.88 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

Keywords: information domain, information system design, security architecture, security policy


13 Separating key management from file system security



David Mazières, Michael Kaminsky, M. Frans Kaashoek, Emmett Witchel
December 1999 **ACM SIGOPS Operating Systems Review , Proceedings of the seventeenth ACM symposium on Operating systems principles SOSP '99**, Volume 33 Issue 5

Publisher: ACM Press

Additional Information:

Full text available:  [pdf\(1.77 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

No secure network file system has ever grown to span the Internet. Existing systems all lack adequate key management for security at a global scale. Given the diversity of the Internet, any particular mechanism a file system employs to manage keys will fail to support many types of use. We propose separating key management from file system security, letting the world share a single global file system no matter how individuals manage keys. We present SFS, a secure file system that avoids internal ...


14 [A cost-effective, high-bandwidth storage architecture](#)



Garth A. Gibson, David F. Nagle, Khalil Amiri, Jeff Butler, Fay W. Chang, Howard Gobioff, Charles Hardin, Erik Riedel, David Rochberg, Jim Zelenka

October 1998 **ACM SIGOPS Operating Systems Review**, **ACM SIGPLAN Notices**, **Proceedings of the eighth international conference on Architectural support for programming languages and operating systems ASPLOS-VIII**, Volume 32, 33 Issue 5, 11

Publisher: ACM Press

Full text available:  [pdf\(1.67 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes the Network-Attached Secure Disk (NASD) storage architecture, prototype implementations of NASD drives, array management for our architecture, and three filesystems built on our prototype. NASD provides scalable storage bandwidth without the cost of servers used primarily, for transferring data from peripheral networks (e.g. SCSI) to client networks (e.g. ethernet). Increasing dataset sizes, new attachment technologies, the convergence of peripheral and interprocessor switch ...

15 [Applying policy management to reduce support costs for remote and mobile computing](#)



Russell J. Sharer

July 1998 **International Journal of Network Management**, Volume 8 Issue 4

Publisher: John Wiley & Sons, Inc.

Full text available:  [pdf\(68.99 KB\)](#)Additional Information: [full citation](#), [abstract](#), [index terms](#)

Remote access to networks has become a standard part of corporate networks worldwide, and one that is growing rapidly. How are network managers to respond to this growth without a corresponding increase in resources? © 1998 by John Wiley & Sons, Ltd.

16 [Nark: receiver-based multicast non-repudiation and key management](#)



Bob Briscoe, Ian Fairman

November 1999 **Proceedings of the 1st ACM conference on Electronic commerce**

Publisher: ACM Press

Full text available:  [pdf\(168.86 KB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: Internet, audit trail, key management, multicast, non-repudiation, smartcard, watermark

17 [Flexible control of downloaded executable content](#)



Trent Jaeger, Atul Prakash, Jochen Liedtke, Nayeem Islam

May 1999 **ACM Transactions on Information and System Security (TISSEC)**, Volume 2 Issue 2

Publisher: ACM Press

Full text available:  [pdf\(297.79 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

We present a security architecture that enables system and application access control requirements to be enforced on applications composed from downloaded executable

content. Downloaded executable content consists of messages downloaded from remote hosts that contain executables that run, upon receipt, on the downloading principal's machine. Unless restricted, this content can perform malicious actions, including accessing its downloading principal's private data and sending messages on th ...

Keywords: access control models, authentication, authorization machanisms, collaborative systems, role-based access control

18 Evaluation and testing of internet firewalls

Khalid Al-Tawil, Ibrahim A. Al-Kaltham

May 1999 **International Journal of Network Management**, Volume 9 Issue 3

Publisher: John Wiley & Sons, Inc.

Full text available:  [pdf\(587.62 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this article we propose a testing methodology for evaluating Internet firewalls and apply it to compare two popular firewalls. Copyright © 1999 John Wiley & Sons, Ltd.

19 Techniques for trusted software engineering


Premkumar T. Devanbu, Philip W-L Fong, Stuart G. Stubblebine

April 1998 **Proceedings of the 20th international conference on Software engineering**

Publisher: IEEE Computer Society


Full text available:  [pdf\(1.21 MB\)](#)  Additional Information: [full citation](#), [references](#), [citing](#), [index terms](#)
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20 Design and implementation of a distributed virtual machine for networked computers

 Emin Gün Sirer, Robert Grimm, Arthur J. Gregory, Brian N. Bershad

December 1999 **ACM SIGOPS Operating Systems Review , Proceedings of the seventeenth ACM symposium on Operating systems principles SOSP '99**, Volume 33 Issue 5

Publisher: ACM Press

Full text available:  [pdf\(1.62 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citing](#), [index terms](#)

This paper describes the motivation, architecture and performance of a distributed virtual machine (DVM) for networked computers. DVMs rely on a distributed service architecture to meet the manageability, security and uniformity requirements of large, heterogeneous clusters of networked computers. In a DVM, system services, such as verification, security enforcement, compilation and optimization, are factored out of clients and located on powerful network servers. This partitioning of system fun ...

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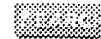
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